

1. (Currently Amended) A method of creating a digital computer model of the craniofacial features of a person, comprising the steps of:

~~scanning the person's external facial features to create a model grid;~~

~~photographing the person's external facial features to obtain photo images of the external facial features;~~

~~superimposing said photo images onto said model grid, therein creating a first computer model of the person's external facial features;~~

~~producing a physical model of the person's teeth;~~

~~scanning the physical model of the teeth, therein creating a second computer model of said physical model of said teeth; and~~

~~integrating said first computer model and said second computer model into a master computer model.~~

2. (Original) The method according to Claim 1, further including the step of creating a third computer model of the person's skull.

3. (Original) The method according to Claim 2, further including the step of integrating said third computer model into said master computer model.

4. (Currently Amended) The method according to Claim 1, wherein said step of ~~creating a first computer model~~ ~~scanning the person's external facial features~~ includes the sub step of ~~providing reference points on at least some of the person's external facial features, and~~ scanning the person's ~~face~~ ~~external facial features~~ in a plurality of poses with a laser scanner.

5. (Currently Amended) The method according to Claim 4, wherein said step of ~~photographing the person's external facial features~~ ~~creating a first computer model~~ includes taking a plurality of digital photographs of the person's ~~face~~ ~~external facial features with said~~

reference points.

6. (Currently Amended) The method according to Claim 5, ~~wherein said step of superimposing said photo images onto said model grid includes superimposing said digital photographs onto said model grid using said reference points for alignment further including the sub step of combining data from said scans and said digital photographs.~~

7. (Cancelled)

8. (Original) The method according to Claim 1, further including the step of creating a bite jig having an orientation plate that extends outside the mouth.

9. (Original) The method according to Claim 8, further including the steps of:  
scanning the patient's head while biting the bite jig to create a first collection of data points;  
coupling said physical model of said teeth to said bite jig in a subassembly; and  
scanning said subassembly to create a second collection of data points.

10. (Original) The method according to Claim 9 wherein said step of integrating said first computer model and said second computer model includes orienting said first computer model with said second computer model using said first collection of data points and said second collection of data.

11. (Original) The method according to Claim 2, wherein said step of creating a third computer model, includes the sub steps of:

generating a generic skull model;  
inputting data corresponding to the skull of the person;  
altering the generic skull model to correspond to the data corresponding to the

skull of the person.

12. (Cancelled)

13. (Currently Amended) ~~The A method according to Claim 12, wherein said step of creating a three-dimensional computer model of a person's craniofacial features, said method including the steps of includes the sub steps of:~~

~~providing a first set of reference points on at least some of a person's external facial features;~~

~~creating scanning the person's external facial features to create a first computer model of the person's external facial features that includes said first set of reference points;~~

~~producing a physical model of the person's teeth;~~

~~creating a second computer model of said physical model of said teeth;~~

~~providing a bite plate having a second set of reference points ;~~

~~holding said bite plate in the person's teeth, wherein said second set of reference points protrude from the person's mouth;~~

~~scanning the person while said bite plate is in the mouth, therein producing a reference scan that includes said first set of reference points and said second set of reference points; and~~

~~integrating said first computer model and said second computer model into a master computer model utilizing said first set of reference points and said second set of reference points in said reference scan.~~

14. (Currently Amended) The method according to Claim ~~12~~ 13, ~~wherein said further including the step of animating said master computer model includes by creating a theoretical appearance of craniofacial features and animating said master computer model between modeled craniofacial features and said theoretical appearance.~~

15. (Currently Amended) The method according to Claim ~~14~~ 13, ~~wherein said further~~

including the step of animating said master computer model ~~includes~~ by animating said master computer model to mimic actions selected from a group consisting of chewing, grinning, smiling, growing and aging.

16. (Currently Amended) The method according to Claim ~~14~~ 13, further including the step of creating a third computer model of the person's skull.

17. (Original) The method according to Claim 16, further including the step of integrating said third computer model into said master computer model.

18. (Cancelled)

19. (Cancelled)

20. (Cancelled)